

A speech recognition unit performs speech recognition on input speech based on models, such as HMMs, and supplies a speech recognition result to a dialog management unit. The dialog management unit forms a reply to the speech recognition result. In this case, the dialog management unit detects zones in which the speech recognition result is correct based on the speech recognition result and the associated reply, and feeds them back to the speech recognition unit. Then, the speech recognition unit performs on-line adaptation of the models based on the speech of the correct zones fed back from the dialog management unit and the associated speech recognition result.